

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051037

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04M1/03 H01Q1/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04M H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/003505 A (MIKKOLA JYRKI ; FILTRONIC LK OY (FI)) 9 January 2003 (2003-01-09) page 1, column 9 - page 6, column 9	1,5-11, 16
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 25, 12 April 2001 (2001-04-12) & JP 2001 217633 A (TOSHIMITSU HIRAHIRO; NAKAMURA TETSUYA), 10 August 2001 (2001-08-10) abstract	1,2,5,7, 9,16
A	US 6 198 206 B1 (LAZARUS KENNETH B ET AL) 6 March 2001 (2001-03-06) column 1, line 13 - column 12, line 49 -/-	1-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

1 October 2004

Date of mailing of the international search report

13/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Pastore, E

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051037

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 317 116 A (SAGEM) 4 June 2003 (2003-06-04) paragraph '0003! - paragraph '0054!	1-16
A	EP 1 294 051 A (CIT ALCATEL) 19 March 2003 (2003-03-19) paragraph '0004! - paragraph '0036!	1-16

BEST AVAILABLE COPY

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/EP2004/051037

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03003505	A	09-01-2003	FI 20011400 A FI 20012525 A EP 1417730 A1 EP 1421642 A1 WO 03003505 A1 WO 03003506 A1 US 2004171403 A1 US 2004171404 A1	30-12-2002 30-12-2002 12-05-2004 26-05-2004 09-01-2003 09-01-2003 02-09-2004 02-09-2004
JP 2001217633	A	10-08-2001	NONE	
US 6198206	B1	06-03-2001	EP 1064646 A1 JP 2002507849 T US 2002070638 A1 WO 9948083 A1 US 6359371 B1 US 2001005108 A1	03-01-2001 12-03-2002 13-06-2002 23-09-1999 19-03-2002 28-06-2001
EP 1317116	A	04-06-2003	FR 2833128 A1 FR 2837036 A1 CN 1422096 A EP 1317116 A1	06-06-2003 12-09-2003 04-06-2003 04-06-2003
EP 1294051	A	19-03-2003	FR 2829651 A1 CN 1420636 A EP 1294051 A1 JP 2003204594 A US 2003068987 A1	14-03-2003 28-05-2003 19-03-2003 18-07-2003 10-04-2003

BEST AVAILABLE COPY